THE MINISTER OF STATE OF THE MINISTRY OF SCIENCE AND TECHNOLOGY (SHRI KAPIL SIBAL) (a) No Sir The Government is not aware of the figure of 50 per cent as all structures face disaster risk to some degree. However, in the Vulnerability Atlas of India (1997) prepared by the Expert Group constituted by Ministry of Urban Development, based on distribution of Houses as per 1991 Census by predominant materials of roof and wall combinations have been worked out and it shows that only 6.55% of the houses are prone to High Damage Risk (H), 85.56% are prone to Medium Damage Risk (M), 4 98% is liable to Low Damage Risk (L) and 2.91% is liable to Very Low Damage Risk (VL)

(b) and (c) Delhi Government has notified Delhi Disaster Management Authority under the Chairmanship of Lieutenant Governor

(d) Community awareness programmes have been started to make people aware of their vulnerabilities

Institute of Seismological Research in Gujarat

2519 SHRI LEKHRAJ BACHANI Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state

(a) whether Government are aware that consequent to the devastating earthquake, the State Government of Gujarat are keen to establish an institute of Seismological Research in Gujarat which would be a R & D Institution of International repute,

(b) if so, details of decision on the proposal by the Central Government, and

(c) the provision of funds for the project?

THE MINISTER OF STATE OF THE MINISTRY OF SCIENCE AND TECHNOLOGY (SHRI KAPIL SIBAL) (a) to (c) Yes, Sir. The Gujarat State Govenrment has informed that the State is taking necessary steps to establish the Institute through its internal resources and external assistance A Director General to head the Institute has already been appointed. Out of the World Bank loan received by State Government under Gujarat Emergency Earthquake Reconstruction Project, an amount of Rs.30.00 crores has been allocated for the institute There are no separate budgetary provisions within Department of Science and Technology allocations for the said institute However, during the last

three years the Department of Science and Technology has supported several research projects in Gujarat area of better earthquake hazard assessment

Weather forecast

2520 SHRI GIREESH KUMAR SANGHI Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state

(a) whether India would be among the select group of Nations to have a state of the art meteorological system to forecast weather 20 or 25 days in advance,

(b) if so, the details thereof,

(c) how would it prepare the farmers to face agriculture-eventualities like floods and droughts, and

(d) what are the main functions and benefits of this system?

THE MINISTER OF STATE OF THE MINISTRY OF SCIENCE AND TECHNOLOGY (SHRI KAPIL SIBAL) (a) to (d) There is an effort to have better and state of the art observational system to improve the forecast abilities of the India Meteorological Department Presently an extended range forecast system is being developed jointly with IIT Delhi in which a number of other institutions such as National Centre for Medium Range Weather Forecasting, Indian Institute of Tropical Meteorology, Pune and Space Application Centre, Ahmedabad are also participating It is a multi-Institutional effort to develop climate model and acquire application experience from international organizations for climate risk management in agriculture The project is being funded by the Ministry of Agriculture It is likely to be completed in 3 years After the development and validation of the new model, the forecasts will be operationalised by India Meteorological Department This is likley to give sufficient lead time to the concerned agencies to prepare the farmers to undertake corrective measures in crop planning This will also help farmers to prepare them to face eventualities like drought and floods In trun, the forecast will help in increasing the agricultural production